05-GF-113
(5510)

Village of Slinger
Incorporated 1869
Washington County
300 Slinger Road
P.O. Box 227
Slinger, Wisconsin 53086-0227

Slinger Utilities
Electric
Sewer
Water
Telephone: (262) 644-5265
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January 21, 2003

Mr. Scot Cullen, Chief Electric Engineer
Public Service Commission
610 N. Whitney Way
P.O. Box 7854
Madison, WI 53707-7854

RE: In the Matter of Filing Reporting Requirements for Appropriate Inspection and Maintenance, PSC Rule 113.0607(6)

Dear Mr. Cullen:

Enclosed for filing are 3 copies of Slinger Utility's report to the commission, submitted every two years, showing compliance with its Preventative Maintenance Plan.

Very truly yours,

VILLAGE OF SLINGER

James E.Haggerty
Village Engineer/Director of Public Works

Enclosures

RECEIVED

Electric Division

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TWO YEAR REPORT DOCUMENTING COMPLIANCE WITH THE PREVENTATIVE MAINTENANCE PLAN

Slinger Utilities

FILING DEADLINE
FEBRUARY 1, 2003

January 21, 2003

James E. Haggerty
300 Slinger Road
Slinger, WI 53086
(262) 644-5265
jhaggerty@wppisys.org

This report format was prepared by the MEUW work group for PSC Rule 113.0607 for use by the 82 municipal electric utilities in Wisconsin and endorsed by PSC staff as meeting the requirements of Rule PSC 113.0607.

I Reporting Requirements: PSC 113.0607(6) states;

Each utility shall provide a periodic report to the commission showing compliance with its Preventative Maintenance Plan. The report shall include a list of inspected circuits and facilities, the condition of facilities according to established rating criteria, schedules established and success at meeting the established schedules.

II Inspection Schedule and Methods:

SCHEDULE:	MONTHLY	ANNUAL	EVERY 5 YEARS
Transmission (69Kv)	N/A	N/A	N/A
Substations	X	X	
Distribution (OH & UG)			X

METHODS: Five criteria groups will be used to complete the inspection of all facilities.

1. IR – infrared thermography used to find poor electrical connections and/or oil flow problems in equipment.
2. RFI - Radio Frequency Interference, a byproduct of loose hardware and connections, is checked using an AM radio receiver.
3. SI – structural integrity of all supporting hardware including poles, cross arms, insulators, structures, bases, foundations, buildings, etc.
4. Clearance – refers to proper spacing of conductors from other objects, trees and conductors.
5. EC – equipment condition on non-structural components such as circuit breakers, transformers, regulators, reclosers, relays, batteries, capacitors, etc.

Distribution facilities will be inspected by substation circuits on a 5-year cycle such that the entire system will be inspected every 5 years. Inspector instructions for inspecting all facilities and forms are included in the plan.

III Condition Rating Criteria

This criterion, as listed below, establishes the condition of a facility and also determines the repair schedule to correct deficiencies .

0) Good condition
1) Good condition but aging
2) Non-critical maintenance required – normally repair within 12 months
3) Priority maintenance required – normally repair within 90 days
4) Urgent maintenance required – report immediately to the utility and repair normally within 1 week

IV Corrective Action Schedule

Slinger Utility's system is in good condition with no corrective action needed. Slinger Utility is in the process of switching from overhead to underground and a majority of the system is less than 10 years old. We are uncertain as to the date when this switchover will be completed as it is tied to the Village's 5-year capitol improvement program.

V Record Keeping

All inspection forms and records will be retained for a minimum of 10 years. The inspection form contains all of the required critical information i.e. inspection dates, condition rating, schedule for repair and date of repair completion.

VI Reporting Requirements

A report and summary of this plan's progress will be submitted every two years with the first report due to the Commission by February 1, 2003. The report will consist of a cover letter documenting the percent of inspections achieved compared to the schedule and the percent of maintenance achieved within the scheduled time allowance.

VII Inspected Circuits and Facilities

Circuit # and description	Substation
Slinger Road	Slinger Road Substation
Glen Hills	Slinger Road Substation
James Street	James Street Substation
Hartford Road	James Street Substation

Base load and peaking generation, less than 50 megawatts per unit in size, is typically subject to pre-operational checks, in addition to checks and maintenance during and after periods of operation. Emergency generation is test run and maintained every month to confirm its operational readiness.

VIII Scheduling Goals Established and Success of Meeting the Criteria:

Slinger Utilities owns and operates three substations within its system. These substations are inspected on a monthly basis.

Slinger Utilities is in the process of switching the remaining overhead lines in its system to underground. This switchover began in 1992 and we are moving towards completion but we are unable to predict at this time when this will occur.

Slinger Utilities has no urgent maintenance items to attend to. A majority of the system is less than 10 years old and is in very good condition.

Slinger Utilities has hired a consultant to perform a 20-year facility plan for its electric utility. We anticipate this plan to be completed in 2003. As part of this plan, we will follow a five-year inspection program of the underground facility.

IX Facility condition – rating criteria:

A majority of Slinger Utilities electric system is less than 10 years old. Visual inspection of the overhead lines, comprising of 5% – 10% of the total electric system, is made on an annual basis. Approximately one year ago, Slinger Utilities changed out several bad insulators that were found in the overhead system. There are no major maintenance items that need attending to. Storm related outages have been minimal and equipment failure has not been a problem. In 2001, Slinger Utilities completed construction of a three-phase loop around the entire service area for added reliability. In general, Slinger Utilities has a very good system.